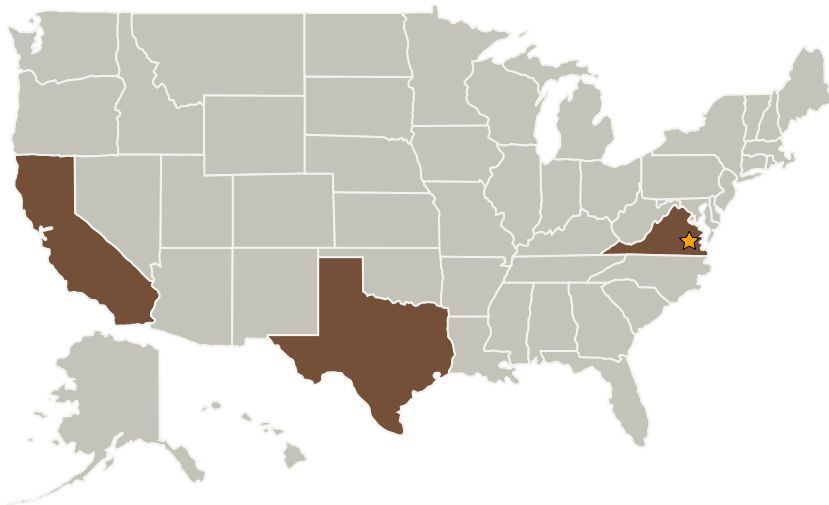




Project Introduction

Current inflatable structures are designed on the restraint layer's short term properties with a Factor of Safety of 4 due to lack of long-term data on structural fabrics. Long-term (5-years) end of life properties of restraint layer materials under loads, are unknown.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ Langley Research Center(LaRC)	Lead Organization	NASA Center	Hampton, Virginia

Primary U.S. Work Locations	
California	Texas
Virginia	



Lightweight Materials and Structures

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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Langley Research Center (LaRC)

Responsible Program:

Game Changing Development



Project Management

Program Director:

Mary J Werkheiser

Program Manager:

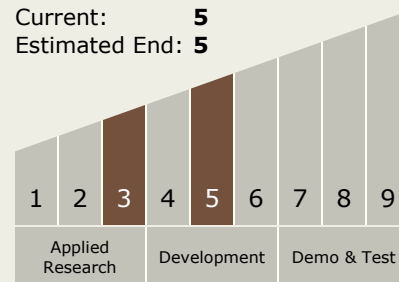
Gary F Meyering

Principal Investigator:

Lynn M Bowman

Technology Maturity (TRL)

Start: **3**
Current: **5**
Estimated End: **5**



Target Destinations

Earth, The Moon, Mars